NEW HABITAT RECORDS FOR *GLENANTHE* SPECIES (DIPTERA: EPHYDRIDAE)¹

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ABSTRACT: New habitat records are presented for *Glenanthe interior* Chillcott. Several specimens were collected over an algal-covered seep and sand shore. Also, *G. litorea* Cresson was discovered in the marine sand beach habitat.

Three species of shore flies, Glenanthe litorea Cresson, G. interior Chillcott, and G. fascipennis Sturtevant and Wheeler are recorded from the United States. Sturtevant and Wheeler (1954) reported G. fascipennis and G. litorea from rather barren, moist saline areas. Also, G. litorea has been recorded from saltmarshes (Cresson, 1925; Simpson, 1976). G. interior was initially swept from Petalostoma sp. growing on stable spruce covered sand dunes in Manitoba, Canada (Chillcott, 1964). A single specimen of G. interior collected over a sedge meadow seepage area in Butler County, Ohio, constitutes the only United States record (Regensburg, 1978; Deonier and Regensburg, 1978).

Morphological separation of *Glenanthe* Haliday species is based upon wing and antennal characters. *G. litorea* has hyaline wings lacking pattern and gray antennae. In contrast, *G. fascipennis* has wings with two broad, poorly defined dark fasciae, one including the posterior crossvein and one nearer the wing apex, as well as yellowish antennae (Sturtevant and Wheeler, 1954). Additional descriptive characters include a fourth vein index of 2.2 for *G. litorea* and a fourth vein index of 2.0 for *G. fascipennis* (Sturtevant and Wheeler, 1954). Cresson (1925) listed the body length of *G. litorea* at 1.7 mm, while *G. fascipennis* is slightly smaller with a body length of 1.5 mm (Sturtevant and Wheeler, 1954).

While sampling in southern Ohio, I discovered several populations of Glenanthe interior in Butler County. Several specimens were collected with a modified aerial sweep net (Regensberg, 1977) in close proximity to a freshwater creek above an algal covered seep and sand shore. Also, the common saltmarsh inhabitant, G. litorea, was collected over a marine sand beach in Milford, Connecticut. The new aquatic and marine records substantiate wider habitat distributions. The two new Ohio records expand the distribution of G. interior to four distinctive aquatic habitats. G. interior has been collected from these four habitats from May through early July.

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Family Ephydridae

Glenanthe interior Chillcott

Distribution: Butler Co., Ohio Four Mile Creek, Algal covered seep with limestone mud substrate, four adults, V-17-1979; three adults, V-18-1979; Harker's Run, Sand shore, 5 adults, VI-28-1978.

Glenanthe litorea Cresson

Distribution: Milford, Conn., Anchor Beach, Sand beach intertidal area, 1 adult, VIII-7-1978.

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